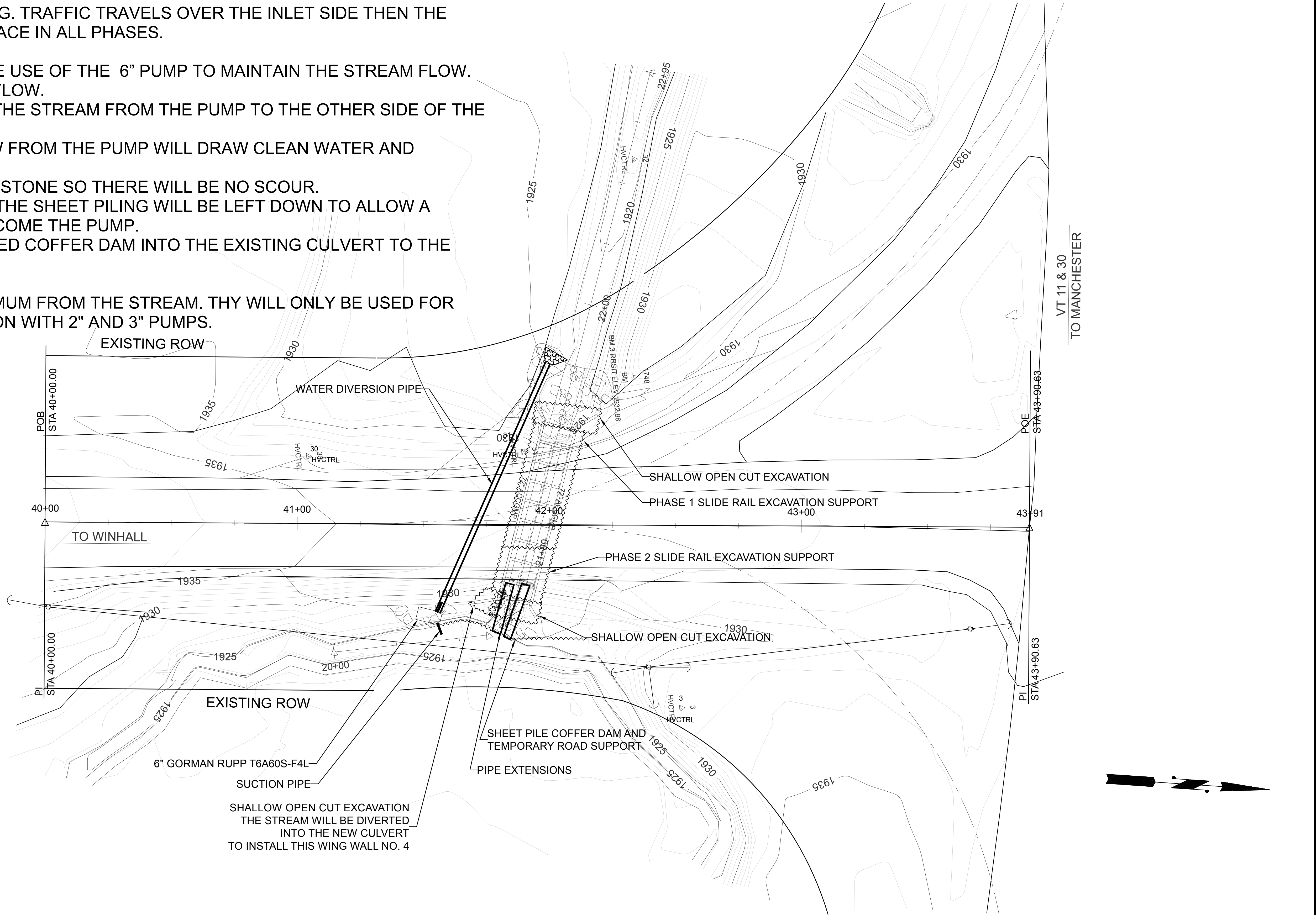


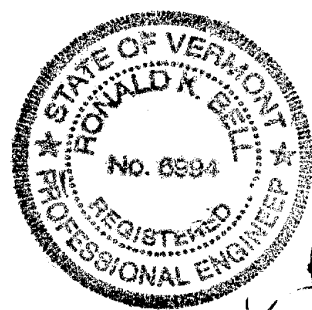
SEE TRAFFIC CONTROL PLANS FOR PHASING. TRAFFIC TRAVELS OVER THE INLET SIDE THEN THE OUTLET SIDE. ALL EPSC ITEM REMAIN IN PLACE IN ALL PHASES.

SEE THE STREAM DIVERSION PLAN FOR THE USE OF THE 6" PUMP TO MAINTAIN THE STREAM FLOW. THE 6" PUMP WILL HANDLE THE 25cfs OHW FLOW. THE PIPE LAID ACROSS THE ROAD CARRIES THE STREAM FROM THE PUMP TO THE OTHER SIDE OF THE ROAD. BY BUILDING AN ADAQUATE POND TO DRAW FROM THE PUMP WILL DRAW CLEAN WATER AND DISCHARGE CLEAN WATER. THE CLEAN WATER WILL DISCHARGE ONTO STONE SO THERE WILL BE NO SCOUR. AT THE INLET OF THE EXISTING CULVERTS THE SHEET PILING WILL BE LEFT DOWN TO ALLOW A RELIEF FOR THE STREAM SHOULD IT OVERCOME THE PUMP. THE STREAM WILL FLOW OVER THE LOWERED COFFER DAM INTO THE EXISTING CULVERT TO THE NEW CULVERT AND BACK TO THE STREAM.

THE FILTER BAGS WILL BE PLACED 50' MINIMUM FROM THE STREAM. THY WILL ONLY BE USED FOR LOCALIZED PUMPING FROM THE EXCAVATION WITH 2" AND 3" PUMPS.



BRIDGE 52 STREAM DIVERSION PLAN  
SCALE 1" = 20'-0"



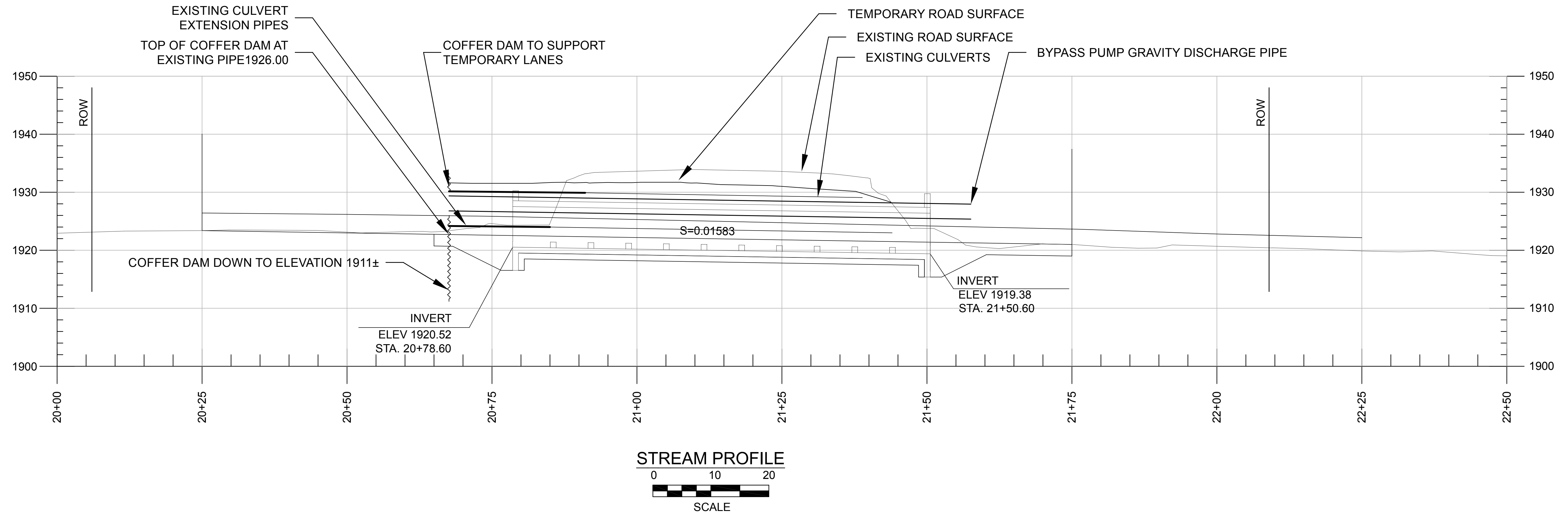
*Ronald K. Bell*

REV. NO.	DATE:
1	05/11/15

**R**  
**I**

RENAUD BROS. INC.  
285 FT. BRIDGEMAN RD. VERNON VT., 05554  
PH: (802) 251-7383 FAX: (802) 251-7308

SHEET NAME: BRIDGE 52 STREAM DIVERSION PLAN		
PROJECT NAME: WINHALL		SHEET NO. 1 OF 4
PROJECT NO: STP CULV (31)		
DRAWN BY: CE	CHK'D BY:	DATE: 04/21/2015

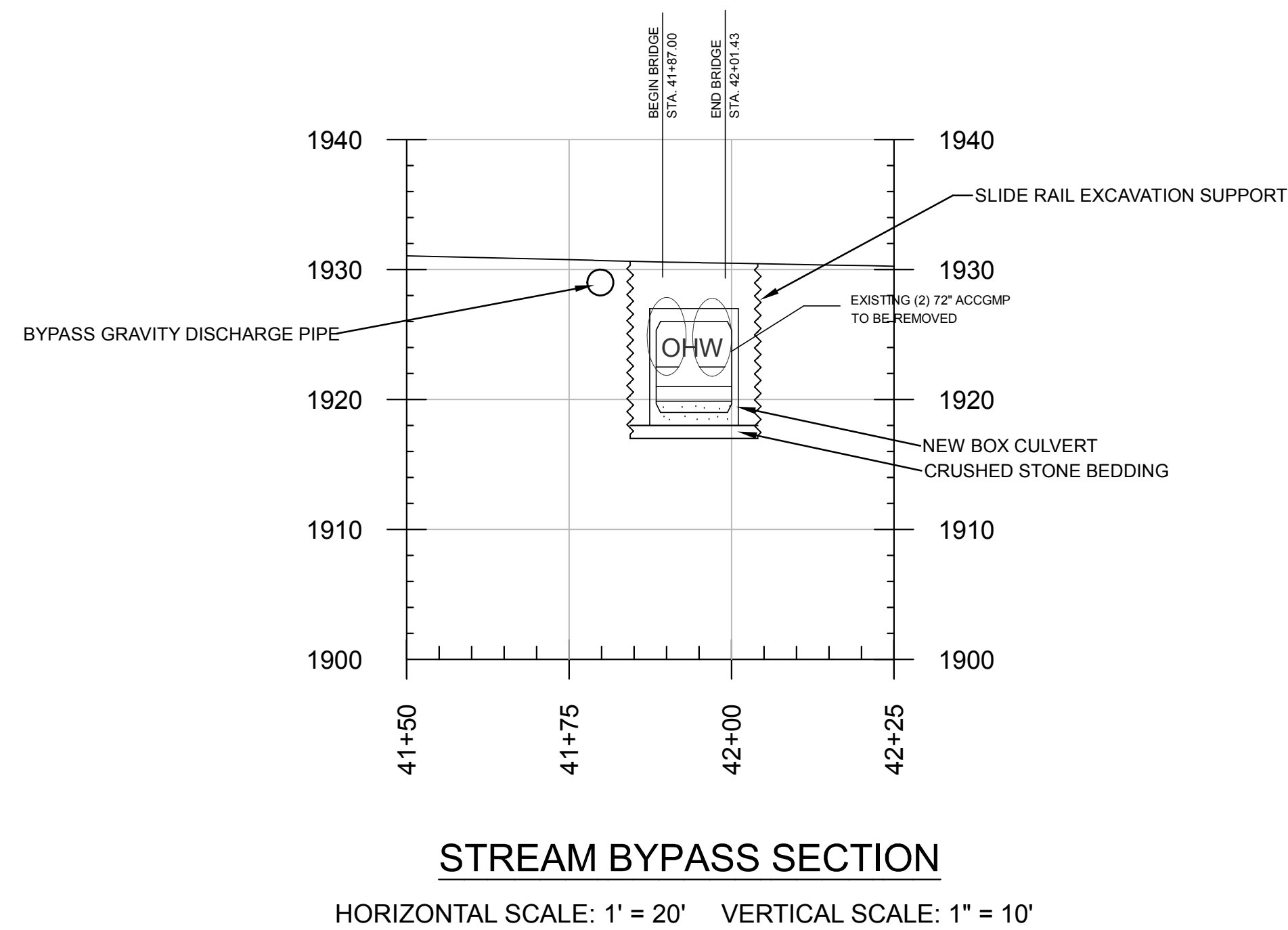


SEQUENCE OF OPERATION:

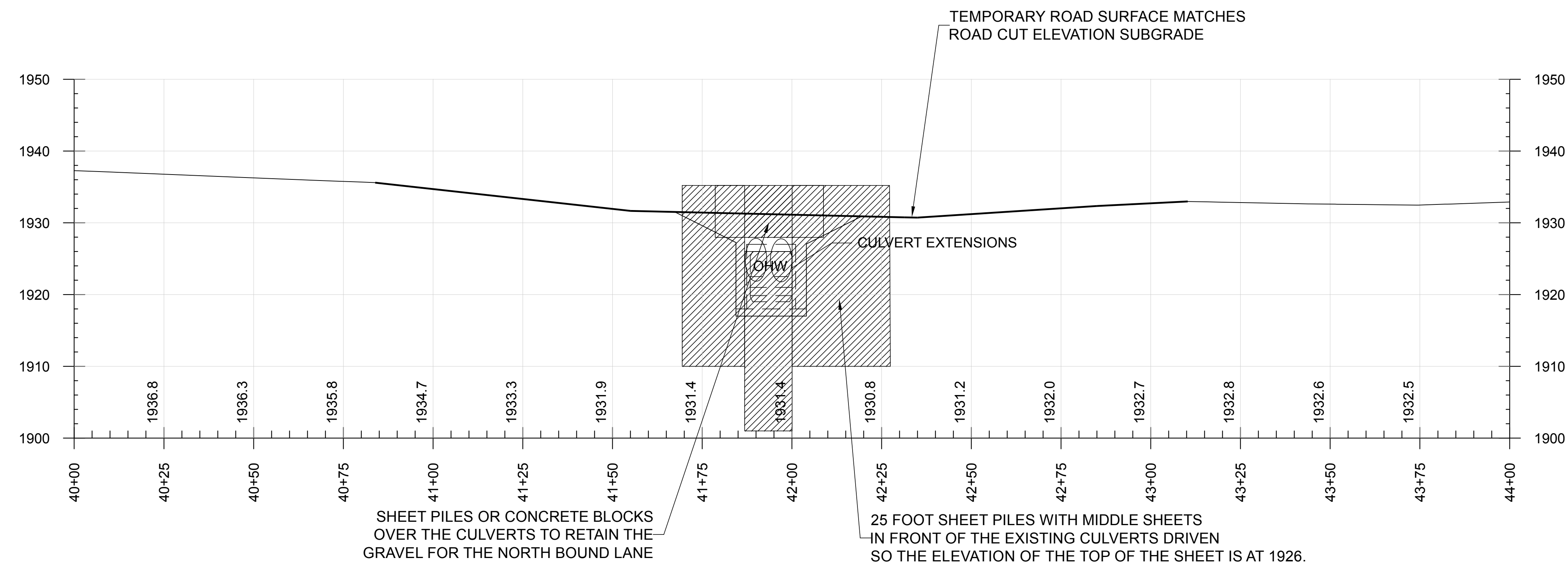
- 1. INSTALL PUMP DISCHARGE PIPE ACROSS ROUTE 30 AND SET UP BYPASS PUMP
- 2. INSTALL SHEET PILE COFFERDAM AND EXISTING CULVERT PIPE EXTENSIONS
- 3. INSTALL ROADWAY SUPORT GRAVELS

NOTES:


THE INTENT OF THE STREAM DIVERSION IS TO UTILIZE THE EXISTING CULVERTS DURING THE CULVERT INSTALLATION. THE COFFER DAM WILL BUILD A WATER LEVEL ENOUGH FOR THE PUMP SUCTION TO ADAQUATLY DRAW FROM. THE SHEETS DRIVEN LOWER IN FRONT OF THE EXISTING CULVERTS IS TO ALLOW A RELIEF FOR THE STREAM TO FLOOD IF THE PUMP SHOULD BE OVER COME DURING A STORM EVENT. IF THE WATER SHOULD OVER TOP THE COFFER DAM IT WILL FLOW DOWN THE EXISTING CULVERT AS IT NORMALLY WOULD. WHEN WE HAVE SECTIONS OF THE NEW BOX INSTALLED THE EXISTING CULVERTS WILL BE MADE TO EXTEND INTO THE NEW CULVERT SO THE STREAM CAN CONTINUE ITS FLOW UNINTERRUPTED.



REV. NO.			DATE:			<div><div>R</div><div>RENAUD BROS. INC.</div><div>283 FT. BRIDGEMAN RD. VERNON VT., 05554 PH. (802) 251-7383 FAX (802) 251-7308</div></div>	SHEET NAME: BR 52 STREAM DIVERSION PROFILE AND SECTION			
							PROJECT NAME: WINHALL		SHEET NO. 2	
							PROJECT NO: STP CULV (31)		OF	
							DRAWN BY: CE		CHK'D BY:	
1			05/11/15						DATE: 04/08/2015	
									4	



BRIDGE 52 STREAM DIVERSION COFFER DAM ELEVATION  
HORIZONTAL SCALE 1" = 20'-0" VERTICAL SCALE 1" = 10'-0"

REV. NO.		DATE:			SHEET NAME: BRIDGE 52 STREAM DIVERSION PLAN		
					PROJECT NAME: WINHALL		SHEET NO. 3  OF 4
					PROJECT NO.: STP CULV (31)		
					DRAWN BY: CE		
					CHK'D BY:		DATE: 04/21/2015

285 FT. BRIDGEMAN RD. VERNON VT., 05554  
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**From:** McIntosh, Mindon (Buffalo) [mindon.mcintosh@aecom.com]  
**Sent:** Monday-May 04-2015 3:36 PM  
**To:** cezequelle@gmail.com; renaudbr@sover.net  
**Cc:** ron.lemaire@state.vt.us; acentofranchi@eivtech.com  
**Subject:** FW: Winhall STP CULV(31) Water Diversion Plan Submittal

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**From:** Lemaire, Ron [Ron.Lemaire@state.vt.us]  
**Sent:** Friday, May 01, 2015 2:34 PM  
**To:** McIntosh, Mindon (Buffalo); [acentofranchi@eivtech.com](mailto:acentofranchi@eivtech.com)  
**Subject:** FW: Winhall STP CULV(31) Water Diversion Plan Submittal

**From:** Jacqueline Dagesse [<mailto:jdagesse@eivtech.com>]  
**Sent:** Wednesday, April 29, 2015 7:20 PM  
**To:** Lemaire, Ron  
**Cc:** Farley, William; Mackintosh, Mark  
**Subject:** Winhall STP CULV(31) Water Diversion Plan Submittal

Hi Ron,

We completed a cursory review of the Winhall STP CULV (31) Water Diversion Plan and have the following comments:

- Renaud Brothers mentions using a 6" pump for dewatering. What size event would this pump be able to handle?
- Where are they dewatering to? Using a filter bag? What is the backup plan?
- The plansheets that they provide need to have resource information, stationing and north arrow.
- We need a more detailed description of what they plan to do.

Jacquie

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